

COMPLETE LISTING OF CLAIMSIN ASCENDING ORDER WITH STATUS INDICATOR

Sub
SB

Claim 1 (currently amended): In an objective lens for an electronic camera, the objective lens having one or more lens groups, an improvement comprising: an optical element on an optical axis of the lens and having a surface at a location selected along the optical axis having such that the optical element will receive light rays substantially collimated and perpendicular to said surface regardless of an orientation of the one or more lens groups, and

a coating on said optical element surface forming an interference filter for causing a modification of the spectrum of light waves supplied to the camera in a manner for the camera to simulate a predetermined spectrum of light rays.

*At
cont*

Claim 2 (original): The objective lens of claim 1, wherein said optical element surface is optically flat.

Claim 3 (original): The objective lens of claim 1, wherein said optical element is removable and replaceable from the objective lens.

Claim 4 (original): The objective lens of claim 3, further including a replacement optical element having substantially the same optical characteristics and without said coating.

Claim 5 (original): The objective lens of claim 1, wherein said location along the optical axis is adjacent an iris of the objective lens.

Claim 6 (original): The objective lens of claim 1, wherein the objective lens includes focusing means and said location along the optical axis allows focusing of the objective lens without substantially changing an angle of incidence of the light rays on said surface.

Claim 7 (original): The objective lens of claim 1, wherein the objective lens includes zooming means and said location along the optical axis allows zooming of the objective lens without substantially changing an angle of incidence of the light rays on said surface.

Claim 8 (original): The objective lens of claim 7, wherein the objective lens includes focusing means and said location along the optical axis allows focusing of the objective lens without substantially changing an angle of incidence of the light rays on said surface.

Claim 9 (original): The objective lens of claim 1, wherein said coating includes layers of low refractive index material and layers of high refractive index materials for producing said predetermined spectrum of light rays.

*Alt
cont*
Claim 10 (currently amended): In an objective lens for an electronic camera, the objective lens having one or more lens groups, an improvement comprising;

an optically flat optical element on and perpendicular to an optical axis of the lens at a location selected along the optical axis having such that the optical element will receive substantially collimated light rays substantially perpendicular to the optical element regardless of an orientation of the one or more lens groups, and

a coating on said optical element forming an interference filter for causing a modification of the spectrum of light waves supplied to the camera in a manner for the camera to simulate a predetermined spectrum of light rays.

Claim 11 (original): The objective lens of claim 10, wherein said optical element is removable and replaceable from the objective lens.

Claim 12 (original): The objective lens of claim 11, further including a replacement optical element having substantially the same optical characteristics and without said coating.

Claim 13 (original): The objective lens of claim 10, wherein said location along the optical axis is adjacent an iris of the objective lens.

Claim 14 (original): The objective lens of claim 10, wherein the objective lens includes focusing means and said location along the optical axis allows focusing of the objective lens without substantially changing an angle of incidence of the light rays on said surface.

Claim 15 (original): The objective lens of claim 10, wherein the objective lens includes zooming means and said location along the optical axis allows zooming of the objective lens without substantially changing an angle of incidence of the light rays on said surface.

Claim 16 (original): The objective lens of claim 15, wherein the objective lens includes focusing means. and said location along the optical axis allows focusing of the objective lens without substantially changing an angle of incidence of the light rays on said surface.

Al Cam
Claim 17 (original): The objective lens of claim 10, wherein said coating includes layers of low refractive index material and layers of high refractive index materials for producing said predetermined spectrum of light rays.

Claim 18 (currently amended): A method for causing an electronic camera to sense and reproduce a predetermined spectrum of light rays, comprising the steps of:

providing the camera with an objective lens having one or more lens groups and having an optical element surface within the objective lens at a location where the light rays are substantially collimated and perpendicular to the optical element surface regardless of an orientation of the one or more lens groups, and

providing the optical element surface with a coating forming an interference filter for modifying the spectrum of light rays to the predetermined spectrum for supplying to the camera.

Claim 19 (original): The method according to claim 18, including the step of removing and replacing an optical element having said surface with another optical element having a surface with a different coating forming an interference filter for modifying the spectrum of light rays to a different predetermined spectrum.

Claim 20 (original): The method according to claim 18, including the step of selecting said coating for said optical element surface for modifying the spectrum of light rays to simulate the predetermined spectrum of a film emulsion of film for a film camera.

Claim 21 (original): The method according to claim 18, including the step of selecting the location of the optical element surface within the objective lens on the basis of the location having minimum ray incident angles at the surface.

Claim 22 (original): The method according to claim 21, wherein the maximum ray incident angle on the surface is 15°.

Claim 23 (currently amended): A method for causing an electronic camera to sense and reproduce a predetermined spectrum of light rays, comprising the steps of:

providing the camera with an objective lens having one or more lens groups and having an optical element within the objective lens at a location of substantially collimated light rays substantially perpendicular to the optical element regardless of an orientation of the one or more lens groups, and

providing the optical element with a coating forming an interference filter for modifying the spectrum of light rays to the predetermined spectrum for supplying to the camera.

Claim 24 (original): The method according to claim 21, wherein the optical element is optically flat.

Claim 25 (currently amended): An objective lens having one or more lens groups for causing an electronic camera to sense and reproduce a predetermined spectrum of light rays, comprising:

if
an optical element within the objective lens at a location of substantially collimated light rays substantially perpendicular to the optical element regardless of an orientation of the one or more lens groups, and

a coating on said optical element forming an interference filter for modifying the spectrum of light rays to the predetermined spectrum for supplying to the video camera.
